

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-91. (canceled)

92. (new) A receiver unit for a remote sound monitor, comprising:
an audio receiver that receives a transmitted audio signal having a parameter that corresponds to an amplitude of a remote sound input;
a display that provides a visual indication of the parameter of the audio signal;
and
a base housing that encloses the audio receiver;
wherein the display is a lamp;
wherein the lamp is a light source covered by a casing;
wherein the light source is recessed in the base housing;
wherein the casing is attached to the base housing over the recessed light source; and
wherein the base housing includes a socket, and the light source is coupled to the socket such that the light source extends from the base housing.

93. (new) The receiver unit of claim 92, wherein the casing is attached to the base housing and encloses the light source.

94. (new) The receiver unit of claim 92, wherein the parameter of the audio signal is an amplitude of the audio signal.

95. (new) A receiver unit for a remote sound monitor, comprising:

an audio receiver that receives a transmitted audio signal having a parameter that corresponds to an amplitude of a remote sound input;

a display that provides a visual indication of the parameter of the audio signal;
and

a base housing that encloses the audio receiver;

wherein the display is a lamp;

wherein the lamp is a light source covered by a casing; and

wherein the casing is an elongated hollow structure.

96. (new) The receiver unit of claim 95, wherein the casing extends above a highest elevation of the structure of the base housing.

97. (new) The receiver unit of claim 95, wherein the light source is recessed in the base housing.

98. (new) The receiver unit of claim 97, wherein the casing is attached to the base housing over the recessed light source.

99. (new) The receiver unit of claim 95, wherein the light source is a light emitting diode.

100. (new) The receiver unit of claim 95, wherein the light source is a light bulb.

101. (new) The receiver unit of claim 95, wherein the casing is transparent.

102. (new) The receiver unit of claim 95, wherein the casing is translucent.

103. (new) The receiver unit of claim 95, wherein the parameter of the audio signal is an amplitude of the audio signal.

104. (new) A receiver unit for a remote sound monitor, comprising:

an audio receiver that receives a transmitted audio signal having a parameter that corresponds to an amplitude of a remote sound input;

a display that provides a visual indication of the parameter of the audio signal;
and

a base housing that encloses the audio receiver;
wherein the display is a lamp;
wherein the lamp is a light source covered by a casing; and
wherein the casing is fabricated from at least one material selected from the group consisting of acrylic, K-resin, crystal styrene, clarified ABS, and natural HDPE.

105. (new) A receiver unit for a remote sound monitor, comprising:

an audio receiver that receives a transmitted audio signal having a parameter that corresponds to an amplitude of a remote sound input;

a display that provides a visual indication of the parameter of the audio signal;
and

a base housing that encloses the audio receiver;
wherein the display is a lamp;
wherein the lamp is a light source covered by a casing;
wherein the light source is recessed in the base housing;
wherein the casing is attached to the base housing over the recessed light source;

wherein the light source is a plurality of light emitting diodes;
wherein the base housing has a top end, a bottom end, and an outer sidewall, and the plurality of light emitting diodes are disposed in sequence on the outer sidewall;
wherein the receiver unit further includes a controller that controls the plurality of light emitting diodes based on the parameter of the received audio signal;

wherein the controller causes the plurality of light emitting diodes to provide the visual indication in a sequence based on a comparison of the parameter of the received audio signal with a predetermined threshold value; and

wherein the controller includes:

a comparator that receives the audio signal and compares the parameter to the threshold value, to provide a comparison result signal having one of a first value and a second value indicative of the result of the comparison;

a signal generator that generates an intermittent signal; and

a display driver that actuates at least one light emitting diode of the plurality of light emitting diodes continuously if the comparison result signal is the first value, and that actuates at least some of the plurality of light emitting diodes according to the intermittent signal if the comparison result signal is the second value.

106. (new) A receiver unit for a remote sound monitor, comprising:

an audio receiver that receives a transmitted audio signal having a parameter that corresponds to an amplitude of a remote sound input;

a display that provides a visual indication of the parameter of the audio signal;
and

a base housing that encloses the audio receiver;

wherein the display is a lamp;

wherein the lamp is a light source covered by a casing;

wherein the light source is recessed in the base housing;

wherein the casing is attached to the base housing over the recessed light source;

wherein the light source is a plurality of light emitting diodes;

wherein the base housing has a top end, a bottom end, and an outer sidewall, and the plurality of light emitting diodes are disposed in sequence on the outer sidewall;

wherein the receiver unit further includes a controller that controls the plurality of light emitting diodes based on the parameter of the received audio signal;

wherein the controller causes the plurality of light emitting diodes to provide the visual indication in a sequence based on a comparison of the parameter of the received audio signal with a predetermined threshold value; and

wherein the controller includes:

a plurality of comparators that receive the audio signal, wherein each comparator of the plurality of comparators compares the parameter of the received audio signal to a respective one of the plurality of threshold values, to provide a

plurality of respective comparison result signals, each having one of a first value and a second value indicative of the result of the comparison;

a signal generator that generates a plurality of periodic signals corresponding to respective ones of the plurality of comparators;

a selector that selects a one of the periodic signals that corresponds to the comparator having the most extreme threshold value among all of the comparators providing a comparison result signal having the second value; and

a display driver that actuates at least one light emitting diode of the plurality of light emitting diodes continuously if all of the plurality of comparators provide comparison results having the first value, and that actuates at least some of the plurality of light emitting diodes according to the selected periodic signal if any comparator provides a comparison result having the second value.

107. (new) The receiver unit of claim 106, wherein a frequency of at least one of the plurality of periodic signals is different than a frequency of at least one other of the plurality of periodic signals.

108. (new) The receiver unit of claim 106, wherein respective frequencies of the plurality of periodic signals correspond in magnitude to relative magnitudes of the respective thresholds of the corresponding comparators.

109. (new) The receiver unit of claim 106, wherein the casing is a lens cover.

110. (new) The receiver unit of claim 109, wherein the lens cover is constructed from material including at least one of polycarbonate, polypropylene, and acrylic.

111. (new) The receiver unit of claim 106, wherein the controller includes a microprocessor.

112. (new) The receiver unit of claim 106, wherein the controller includes an analog-to-digital converter.

113. (new) The receiver unit of claim 106, wherein at least one light emitting diode of the plurality of light emitting diodes provides light that is a color that is different from a color of light provided by at least another light emitting diode of the plurality of light emitting diodes.

114. (new) The receiver unit of claim 113, wherein the controller causes the at least one light emitting diode to provide the visual indication when the parameter of the received audio signal exceeds a predetermined threshold value, and the controller causes the at least another light emitting diode to provide the visual indication when the parameter of the received audio signal does not exceed the predetermined threshold value.

115. (new) The receiver unit of claim 114, wherein the controller includes:
a comparator that receives the audio signal and compares the parameter to the threshold value, to provide a comparison result signal having one of a first value and a second value indicative of the result of the comparison;
a first display driver that actuates the at least one light emitting diode if the comparison result signal is the first value; and
a second display driver that actuates the at least another light emitting diode if the comparison result signal is the second value.

116. (new) The receiver unit of claim 106, wherein the base housing further includes a spring-force biased clip attached to one of the top end of the base housing and the bottom end of the base housing.

117. (new) The receiver unit of claim 116, wherein the one of the top end of the base housing and the bottom end of the base housing includes a recessed portion and is otherwise flat, and wherein the spring-force biased clip is attached to the base housing within the recessed portion and is completely disposed within the recessed portion.

118. (new) The receiver unit of claim 106, wherein the top end of the base housing and the bottom end of the base housing are round in cross-section.

119. (new) A receiver unit for a remote sound monitor, comprising:
an audio receiver that receives a transmitted audio signal having a parameter that corresponds to an amplitude of a remote sound input;
a display that provides a visual indication of the parameter of the audio signal;
and
a controller that controls the display in accordance with the parameter of the received audio signal;
wherein the controller causes the display to provide the visual indication intermittently when the parameter of the received audio signal exceeds a predetermined threshold value;
wherein the controller includes:
a comparator that receives the audio signal and compares the parameter to the threshold value, to provide a comparison result signal having one of a first value and a second value indicative of the result of the comparison;
a signal generator that generates an intermittent signal; and
a display driver that actuates the display continuously if the comparison result signal is the first value, and that actuates the display according to the intermittent signal if the comparison result signal is the second value.

120. (new) The receiver unit of claim 119, wherein the threshold value is adjustable.

121. (new) The receiver unit of claim 120, further including a potentiometer for providing the threshold value.

122. (new) The receiver unit of claim 119, wherein the signal generator is a square-wave generator.

123. (new) A receiver unit for a remote sound monitor, comprising:
an audio receiver that receives a transmitted audio signal having a parameter that corresponds to an amplitude of a remote sound input;

a display that provides a visual indication of the parameter of the audio signal;
and

a controller that controls the display in accordance with the parameter of the received audio signal;

wherein the controller causes the display to provide the visual indication intermittently when the parameter of the received audio signal exceeds a predetermined threshold value;

wherein the controller includes:

a plurality of comparators that receive the audio signal, wherein each comparator of the plurality of comparators compares the parameter of the received audio signal to a respective one of a plurality of threshold values, to provide a plurality of respective comparison result signals, each having one of a first value and a second value indicative of the result of the comparison;

a signal generator that generates a plurality of periodic signals corresponding to respective ones of the plurality of comparators;

a selector that selects a one of the periodic signals that corresponds to the comparator having the most extreme threshold value among all of the comparators providing a comparison result signal having the second value; and

a display driver that actuates the display continuously if all of the plurality of comparators provide comparison results having the first value, and that actuates the display according to the selected periodic signal if any comparator provides a comparison result having the second value.

124. (new) The receiver unit of claim 123, wherein a frequency of at least one of the plurality of periodic signals is different than a frequency of at least one other of the plurality of periodic signals.

125. (new) The receiver unit of claim 123, wherein respective frequencies of the plurality of periodic signals correspond in magnitude to relative magnitudes of the respective thresholds of the corresponding comparators.

126. (new) The receiver unit of claim 123, wherein the controller includes a microprocessor.

127. (new) The receiver unit of claim 123, wherein the controller includes an analog-to-digital converter.

128. (new) A receiver unit for a remote sound monitor, comprising:
an audio receiver that receives a transmitted audio signal having a parameter that corresponds to an amplitude of a remote sound input;
a display that provides a visual indication of the parameter of the audio signal;
and
a controller that controls the display in accordance with the parameter of the received audio signal;
wherein the controller causes the display to change the visual indication from a first color to a second color when the parameter of the received audio signal exceeds a predetermined threshold value;
wherein the display includes a first light element that provides light of the first color, and a second light element that provides light of the second color;
wherein the controller includes:
a comparator that receives the audio signal and compares the parameter to the threshold value, to provide a comparison result signal having one of a first value and a second value indicative of the result of the comparison;
a first display driver that actuates the first light element if the comparison result signal is the first value; and
a second display driver that actuates the second light element if the comparison result signal is the second value; and
wherein the threshold value is adjustable.

129. (new) The receiver unit of claim 128, further including a potentiometer for providing the threshold value.

130. (new) The receiver unit of claim 128, wherein the first light element is green.

131. (new) The receiver unit of claim 128, wherein the second light element is red.

132. (new) A receiver unit for a remote sound monitor, comprising:
an audio receiver that receives a transmitted audio signal having a parameter that corresponds to an amplitude of a remote sound input;
a display that provides a visual indication of the parameter of the audio signal;
and
a controller that controls the display in accordance with the parameter of the received audio signal;
wherein the controller causes the display to change the visual indication from a first color to a second color when the parameter of the received audio signal exceeds a predetermined threshold value;
wherein the display includes a first light element that provides light of the first color, and a second light element that provides light of the second color;
wherein the controller includes:
a comparator that receives the audio signal and compares the parameter to the threshold value, to provide a comparison result signal having one of a first value and a second value indicative of the result of the comparison;
a first display driver that actuates the first light element if the comparison result signal is the first value; and
a second display driver that actuates the second light element if the comparison result signal is the second value.
wherein the predetermined threshold value is a first predetermined threshold value, and wherein the controller causes the display to provide the visual indication intermittently based on a comparison of the parameter of the received audio signal to a second predetermined threshold value.

133. (new) The receiver unit of claim 132, wherein the comparator is a first comparator and the comparison result signal is a first comparison result signal, and the controller further includes:

- a second comparator that receives the audio signal and compares the parameter to the second threshold value, to provide a second comparison result signal having one of a first value and a second value indicative of the result of the comparison;

- a signal generator that generates an intermittent signal; and

- a third display driver that actuates the display continuously if the second comparison result signal is the first value, and that actuates the display according to the intermittent signal if the second comparison result signal is the second value.

134. (new) The receiver unit of claim 133, wherein the first threshold exceeds the second threshold.

135. (new) The receiver unit of claim 133, wherein the second threshold exceeds the first threshold.

136. (new) A remote sound monitor comprising a receiver unit and a transmitter unit,

- wherein the receiver unit includes

- an audio receiver that receives a transmitted audio signal having a parameter that corresponds to an amplitude of a remote sound input; and

- a display that provides a visual indication of the parameter of the audio signal;
- and

- wherein the transmitter unit includes

- a sound transducer that receives the sound input and converts the sound input to the audio signal;

- an audio transmitter that transmits the audio signal; and

- a lamp;

- wherein the lamp is a light source covered by a casing;

- wherein the transmitter unit includes a base housing that encloses the sound transducer and the audio transmitter; and

wherein the base housing includes a socket, and the light source is coupled to the socket such that the light source extends from the base housing.

137. (new) The remote sound monitor of claim 136, wherein the light source is a light bulb.

138. (new) The remote sound monitor of claim 136, wherein the casing is attached to the base housing and encloses the light source.

139. (new) The remote sound monitor of claim 136, wherein the sound transducer includes a microphone.

140. (new) The remote sound monitor of claim 139, wherein the sound transducer further includes a processor that provides the parameter.

141. (new) The remote sound monitor of claim 136, wherein the sound transducer is a digital sound transducer that provides a digital audio signal.

142. (new) The remote sound monitor of claim 141, wherein the audio transmitter is a digital audio transmitter.

143. (new) The remote sound monitor of claim 142, wherein the audio receiver is a digital audio receiver.

144. (new) The remote sound monitor of claim 136, wherein the light source is recessed in the base housing.

145. (new) The remote sound monitor of claim 144, wherein the light source is a light emitting diode.

146. (new) The remote sound monitor of claim 144, wherein the casing is attached to the base housing over the recessed light source.

147. (new) The remote sound monitor of claim 136, wherein the casing is transparent.

148. (new) The remote sound monitor of claim 136, wherein the casing is translucent.

149. (new) The remote sound monitor of claim 136, wherein the casing is an elongated hollow structure.

150. (new) The remote sound monitor of claim 136, wherein the casing is fabricated from at least one material selected from the group consisting of acrylic, K-resin, crystal styrene, clarified ABS, and natural HDPE.

151. (new) The remote sound monitor of claim 136, wherein the light source includes at least one of electro-luminescent material and thermo-luminescent material.

152. (new) The receiver unit of claim 136, further comprising an audio speaker that converts the received audio signal to audible sound.

153. (new) The receiver unit of claim 152, further comprising an audio amplification circuit that amplifies the received audio signal and provides the amplified audio signal to the audio speaker.

154. (new) The receiver unit of claim 153, wherein the audio amplification circuit includes noise-reduction circuitry that increases a signal-to-noise ratio of the amplified audio signal.

155. (new) The receiver unit of claim 153, wherein the audio amplification circuit includes a switch that selectably actuates and de-actuates the audio amplification circuit.

156. (new) The receiver unit of claim 153, wherein the audio amplification circuit includes a gain selector that adjusts a gain of the audio amplification circuit.

157. (new) The receiver unit of claim 156, wherein the gain selector includes a potentiometer.